APPENDIX A: Current and expected impacts of freight

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Table 1 Profile of top 15 highway freight impact bottlenecks in the Los Angeles region

SR-60 west of I-15	Length (mile)	9.95
COLF AND S	Direction	East
	County	San Bernardino
	City	Chino-Ontario
	Average total volume	36,745
		,
	Average truck volume	3,454
	Average share of trucks	9.40%
	Congestion speed (mile/h)	19.40
	Average peak hour all-vehicle	
•	congestion value (vehicle*mile/hour)	1,278,309
	Total peak hour all-vehicle delay	
	(vehicle*hour)	11741.6
	Average peak hour freight congestion	
The state of the s	value (truck*mile/hour)	120,160
	Total peak hour freight delay	
	(truck*hour)	1103.7
SR-60 north of SR-57	Length (mile)	0.85
	Direction	East
	County	San Bernardino
	City	Diamond Bar
	Average total volume	56,482
	Average truck volume	2,594
	Average share of trucks	4.60%
	Congestion speed (mile/h)	8.10
	Average peak hour all-vehicle	
Y X X X X X	congestion value (vehicle*mile/hour)	2,650,495
	Total peak hour all-vehicle delay	
	(vehicle*hour)	6580.1
	Average peak hour freight congestion	
	value (truck*mile/hour)	121,727
	Total peak hour freight delay	
	(truck*hour)	302.2
I-710 south of I-5	Length (mile)	4.36
	Direction	North
	County	Los Angeles
	City	Cudahy-Bell-South Gate
	Average total volume	34,571
	Average truck volume	3,745
	Average share of trucks	10.85%
	Congestion speed (mile/h)	26.85
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	788,302
	Total peak hour all-vehicle delay	
	(vehicle*hour)	5826.8
	Average peak hour freight congestion	
	value (truck*mile/hour)	85,395
	Total peak hour freight delay	
	(truck*hour)	631.2

ge total volume ge truck volume ge share of trucks stion speed (mile/h) ge peak hour all-vehicle stion value (vehicle*mile/hour) peak hour all-vehicle delay le*hour) ge peak hour freight congestion (truck*mile/hour) peak hour freight delay hour) in (mile) ion y ge total volume ge truck volume ge share of trucks stion speed (mile/h) ge peak hour all-vehicle	North Los Angeles Los Angeles 48,993 2,626 5.30% 8.20 2,289,742 4875.0 122,729 261.3 1.05 North Los Angeles Los Angeles 45,881 2,713 5.90% 9.70
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ge share of trucks stion speed (mile/h)	5.90% 9.70
stion speed (mile/h)	9.70
_	
ge neek hour all vehicle	
stion value (vehicle*mile/hour)	2,078,952
beak hour all-vehicle delay	
e*hour)	4246.5
ge peak hour freight congestion	
(truck*mile/hour)	122,931
,	251.1
n (mile)	4.96
ion	East
ý	San Bernardino
	Upland-Montclair-Ontario
ge total volume	36,115
ge truck volume	3,533
ge share of trucks	10.10%
stion speed (mile/h)	25.71
ge peak hour all-vehicle	
	1,058,068
	3983.6
	103,507
	100,007
	I
	peak hour freight delay *hour) h (mile) tion y age total volume age truck volume age share of trucks estion speed (mile/h) age peak hour all-vehicle stion value (vehicle*mile/hour) peak hour all-vehicle delay le*hour) age peak hour freight congestion (truck*mile/hour) peak hour freight delay

I-710 @ I-5	Length (mile)	1.82
	Direction	North
	County	Los Angeles
	City	Commerce
	Average total volume	36,276
	Average truck volume	3,690
	Average share of trucks	10.31%
	Congestion speed (mile/h)	15.73
	Average peak hour all-vehicle	10,70
	congestion value (vehicle*mile/hour)	1,421,341
	Total peak hour all-vehicle delay	1,121,611
	(vehicle*hour)	3608.9
	Average peak hour freight congestion	2000.5
	value (truck*mile/hour)	144,579
*	Total peak hour freight delay	1,677
	(truck*hour)	367.1
I-405 @ SR-22	Length (mile)	1.01
1100 0 211 12	Direction	East
	County	Orange
HOLLAND AVE 25 55 55 55 55 55 55 55 55 55 55 55 55	City	Seal Beach
	Average total volume	59,865
1,0	Average truck volume	2,739
A James Will	Average share of trucks	4.58%
SUMMANT SUMMANT	Congestion speed (mile/h)	13.70
24 X 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Average peak hour all-vehicle	15.70
A LANGE OF THE PARTY OF THE PAR	congestion value (vehicle*mile/hour)	2,467,994
	Total peak hour all-vehicle delay	2,107,221
	(vehicle*hour)	3311.3
	Average peak hour freight congestion	3311.0
VALUE OF ANY	value (truck*mile/hour)	112,918
200	Total peak hour freight delay	112,710
	(truck*hour)	151.5
I-10 @ I-15	Length (mile)	
1-10 @ 1-15		1.76
	Direction	East
	County	San Bernardino
	City	Ontario
	Average total volume	41,758
数45000000000000000000000000000000000000	Average truck volume	3,454
	Average share of trucks	8.38%
Creek TO TO LEGISLAND LINE TO SERVICE AND A	Congestion speed (mile/h)	18.59
	Average peak hour all-vehicle	1 511 751
	congestion value (vehicle*mile/hour)	1,511,751
	Total peak hour all-vehicle delay	250 : 5
	(vehicle*hour)	2734.7
	Average peak hour freight congestion	
	value (truck*mile/hour)	125,044
	Total peak hour freight delay	
	(truck*hour)	226.2

SR-91 west of I-605	Length (mile)	2.74
	Direction	West
	County	Los Angeles
	City	Long Beach-Bellflower
	Average total volume	36,727
	Average truck volume	3,670
	Average share of trucks	10.00%
	Congestion speed (mile/h)	28.02
	Average peak hour all-vehicle	20.02
	congestion value (vehicle*mile/hour)	990,098
	Total peak hour all-vehicle delay (vehicle*hour)	2020.5
•	Average peak hour freight congestion	2020.3
	value (truck*mile/hour)	98,937
	Total peak hour freight delay	70,731
	(truck*hour)	201.9
SR-91 @ SR-71	Length (mile)	0.95
	Direction	West
	County	Riverside
	City	Corona
	Average total volume	38,661
	Average truck volume	3,034
	Average share of trucks	7.85%
	Congestion speed (mile/h)	15.45
De la company de	Average peak hour all-vehicle	
Equation Artic Street	congestion value (vehicle*mile/hour)	1,528,792
poor age.	Total peak hour all-vehicle delay	
NICE WATER TO	(vehicle*hour)	1707.5
	Average peak hour freight congestion	
	value (truck*mile/hour)	119,975
	Total peak hour freight delay	
The state of the s	(truck*hour)	134
I-210	Length (mile)	1.10
	Direction	West
	County	Los Angeles
	City	Los Angeles
1 1	Average total volume	32,529
	Average truck volume	3,022
Sentiment of the second	Average share of trucks	9.29%
	Congestion speed (mile/h)	19.92
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	1,141,098
	Total peak hour all-vehicle delay	
	(vehicle*hour)	1150.7
new p	Average peak hour freight congestion	
in I made I	value (truck*mile/hour)	106,010
	Total peak hour freight delay	
	(truck*hour)	106.9

I-710 south of I-105	Length (mile)	1.35
MARKY S	Direction	North
The state of the s	County	Los Angeles
	City	Compton-Paramount
	Average total volume	44,213
	Average truck volume	4,062
	Average share of trucks	9.19%
ROBERTON AND PROPERTY OF	Congestion speed (mile/h)	28.60
weeken, a - 5 - 5	Average peak hour all-vehicle	
1 10 10 10 10 10 10 10 10 10 10 10 10 10	congestion value (vehicle*mile/hour)	1,166,986
ANY AMERICAN PARTY AND ADMINISTRATION OF THE PARTY AND ADMINIS	Total peak hour all-vehicle delay	, ,
1.0000 tJ	(vehicle*hour)	1017.7
	Average peak hour freight congestion	
TOTAL STATE OF THE	value (truck*mile/hour)	107,215
	Total peak hour freight delay	·
	(truck*hour)	93.5
I-405 @ I-605	Length (mile)	0.11
artanda ar	Direction	West
605	County	Orange
2/5 a	City	Seal Beach
	Average total volume	61,762
	Average truck volume	2,705
	Average share of trucks	4.38%
	Congestion speed (mile/h)	11.31
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	2,697,618
a / / / \ \ i	Total peak hour all-vehicle delay	
	(vehicle*hour)	465.8
	Average peak hour freight congestion	
	value (truck*mile/hour)	118,148
	Total peak hour freight delay	
	(truck*hour)	20.4
SR-91 east of I-710	Length (mile)	0.57
	Direction	West
	County	Los Angeles
EAST BLOOD	City	Long Beach
LE AND	Average total volume	38,036
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Average truck volume	3,737
ARTHSIA (WY II) ESPINST	Average share of trucks	9.84%
ALL HAVE	Congestion speed (mile/h)	29.93
Canadana III	Average peak hour all-vehicle	
8 9 9 Esamst	congestion value (vehicle*mile/hour)	953,170
toughton Park EastOS1 2	Total peak hour all-vehicle delay	
E SHO ST LINE WAY	(vehicle*hour)	344.0
E HARDING 37	Average peak hour freight congestion	
1515111 6	value (truck*mile/hour)	93,648
	Total peak hour freight delay	
	(truck*hour)	33.8

Table 2 Profile of top 15 highway freight impact bottlenecks in the San Francisco region

I-80 SF Bay Bridge	Length (mile)	4.73
	Direction	East
	County	San Francisco
	City	San Francisco
Technic /	Average total volume	40,924
Prassure Stand	Average truck volume	2,650
	Average share of trucks	6.47%
in the second se	Congestion speed (mile/h)	24.80
Annual of stand fry	Average peak hour all-vehicle	200
The second secon	congestion value (vehicle*mile/hour)	1,014,946
	Total peak hour all-vehicle delay	-,,
Resign to the state of the stat	(vehicle*hour)	2940.4
to the state of th	Average peak hour freight congestion	2, 101.1
	value (truck*mile/hour)	65,722
	Total peak hour freight delay	
	(truck*hour)	190.4
I-80 Berkeley	Length (mile)	2.98
a Regio	Direction	North
don'the Ave & symbolist Ave	County	Alameda
Albayy C R	City	Berkeley-Albany
Solano Ave	Average total volume	33,099
Gotten Gate Albany M ^{arts}	Average truck volume	2,635
Girman St Hopkin St Rose St	Average share of trucks	7.95%
Cetar E G Cedar St G Cedar St G	Congestion speed (mile/h)	32.10
Park Berkeley	Average peak hour all-vehicle	
Durant CO Way Durant CO Way Way Day	congestion value (vehicle*mile/hour)	760,988
Dw/ Glist Way	Total peak hour all-vehicle delay	,
70 ST 200 PM	(vehicle*hour)	1295.1
Andrew 5	Average peak hour freight congestion	
Alcertar	value (truck*mile/hour)	60,582
O Powell St. Strategy	Total peak hour freight delay	
Emerivile 9 52nd 51 91st 51	(truck*hour)	103.1
US-101 South Bay	Length (mile)	3.39
Falo Alto	Direction	South
	County	San Mateo
Marko Park Park and	City	Palo Alto
	Average total volume	23,329
Palo Alto	Average truck volume	2,738
State	Average share of trucks	11.76%
River Line Charles Code	Congestion speed (mile/h)	36.30
China China	Average peak hour all-vehicle	
Parket Page 1	congestion value (vehicle*mile/hour)	441,939
	Total peak hour all-vehicle delay	
	(vehicle*hour)	856.3
Localina Mountain View	Average peak hour freight congestion	
The state of the s	value (truck*mile/hour)	51,868
Come I com	Total peak hour freight delay	,
Taning Town	(truck*hour)	100.5

I-880 Union City	Length (mile)	2.36
	Direction	South
Whipple Rd 238	County	Alameda
	City	Union City
Smith St.	Average total volume	25,053
	Average truck volume	1,665
Alumedy Create	Average share of trucks	6.64%
and the state of t	Congestion speed (mile/h)	35.32
	Average peak hour all-vehicle	33.32
	congestion value (vehicle*mile/hour)	507,229
	Total peak hour all-vehicle delay	301,227
Oyale Hills Staugh	(vehicle*hour)	779.4
Ardenwood	Average peak hour freight congestion	112.1
Coyole Hills Regional Powrants	value (truck*mile/hour)	33,710
	Total peak hour freight delay	33,710
The one of the other states of the other state	(truck*hour)	51.8
I-680 Fremont	Length (mile)	
1-000 Fremont	Direction Direction	0.92 North
	County	Alameda
	City	Fremont
	Average total volume	27,523
Calasta	Average total volume Average truck volume	2,127
in the state of th	Average thek volume Average share of trucks	7.73%
Sunot Vality Out Club	Congestion speed (mile/h)	23.40
	Average peak hour all-vehicle	23.40
	congestion value (vehicle*mile/hour)	870,565
- Sunel	Total peak hour all-vehicle delay	870,505
ColfCub	(vehicle*hour)	622.4
Am	Average peak hour freight congestion	022.4
Mean	value (truck*mile/hour)	67,278
	Total peak hour freight delay	01,210
Con Con	(truck*hour)	48.1
I-680 Walnut Creek	Length (mile)	
1-UOU VV amut Creek		0.31
a g Contentiant	Direction	South/North
Naugan ne	County	Contra Costa
Mendow Let 2	City A years on total yeahans	Walnut Creek 40,389
C Total	Average total volume	·
The and April	Average truck volume	2,048
	Average share of trucks	5.07%
Superal Supera Superal Superal Superal Superal Superal Superal Superal Superal	Congestion speed (mile/h)	31.50
- Burnin	Average peak hour all-vehicle	670.572
	congestion value (vehicle*mile/hour)	679,573
Miles of Co.	Total peak hour all-vehicle delay	(01.0
	(vehicle*hour)	621.2
Shorted Car Street Mark Mark Street S	Average peak hour freight congestion	24.450
E confection (CA)	value (turck*mile/hour)	34,459
The state of the s	Total peak hour freight delay	21.7
	(turck*hour)	31.5

SR-24 Oakland	Length (mile) Direction County City Average total volume Average truck volume Average share of trucks	0.96 East Alameda Oakland 18,527
Mer Vanna	County City Average total volume Average truck volume	Alameda Oakland
Cong Co	City Average total volume Average truck volume	Oakland
Only One of the State of the St	Average total volume Average truck volume	
Step Steps	Average truck volume	1X 37/ I
Mary Street Street Street		1,432
They bear. Parts	Tiverage share of trucks	7.73%
	Congestion speed (mile/h)	23.40
S & Landy & &	Average peak hour all-vehicle	23.40
Chaing	congestion value (vehicle*mile/hour)	586,550
Comment of the Commen	Total peak hour all-vehicle delay	500,550
Grante [®] 3	(vehicle*hour)	438.6
Grady Spith Birg.	Average peak hour freight congestion	130.0
Categorie But Tay	value (turck*mile/hour)	45,336
Sele Director Responsi Rockers	Total peak hour freight delay	15,550
The state of the s	(turck*hour)	33.9
I-880 @ SR-92	Length (mile)	1.34
Hayward or	Direction	South
The second secon	County	Alameda
	City	Haywood
Profits A Land Annual A	Average total volume	26,541
Survey.	Average truck volume	1,779
Man Andrews	Average share of trucks	6.69%
Namy Ave Midde 1.5	Congestion speed (mile/h)	34.70
	Average peak hour all-vehicle	
Color of the Color	congestion value (vehicle*mile/hour)	546,589
	Total peak hour all-vehicle delay	,
The property of the second sec	(vehicle*hour)	393.9
	Average peak hour freight congestion	
Top page	value (truck*mile/hour)	36,637
The second secon	Total peak hour freight delay	
Regulate Dany W	(truck*hour)	26.4
SR-237@I-880	Length (mile)	0.72
by the men	Direction	East
S Rusty and Dr	County	Santa Clara
	City	Milpitas
and the same of th	Average total volume	18,401
Ranch Dr.	Average truck volume	1,630
Tho.	Average share of trucks	8.85%
Average Advisor Majoras Ho	Congestion speed (mile/h)	21.80
adver Di	Average peak hour all-vehicle	
Today or Or	congestion value (vehicle*mile/hour)	610,891
	Total peak hour all-vehicle delay	,*** -
300° 3	(vehicle*hour)	366.9
October Charge C	Average peak hour freight congestion	
	value (truck*mile/hour)	54,114
Contra De Paris	Total peak hour freight delay	2 1,114
8 9 9 9 9	(truck*hour)	32.5

US-101 San Francisco	Length (mile)	0.96
Accepted the second sec	Direction	South
Datum And State Day Seed N	County	San Francisco
249.81 Alastid 5 5 6 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	City	San Francisco
1500.51 Const. 2 100.52 Carpointer	Average total volume	30,416
	Average truck volume	2,581
120 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Average share of trucks	8.48%
1900 St 1900 S	Congestion speed (mile/h)	36.70
District 2 2000 t Porces District 2 2000 t Distr	Average peak hour all-vehicle	
211151 2 211151 2 2 2 2 2 2 2 2 2 2 2 2	congestion value (vehicle*mile/hour)	558,471
2 20c51	Total peak hour all-vehicle delay	,
The state of the s	(vehicle*hour)	266.3
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Average peak hour freight congestion	
	value (truck*mile/hour)	47,390
The state of the s	Total peak hour freight delay	•
	(truck*hour)	22.6
US-101 San Mateo	Length (mile)	1.06
	Direction	South
Supply Su	County	San Mateo
	City	San Mateo
The state of the s	Average total volume	29,770
Thomas and the state of the sta	Average truck volume	2,617
of the state of th	Average share of trucks	8.79%
To Chespoole Ave	Congestion speed (mile/h)	40.30
Red Petrolin Series	Average peak hour all-vehicle	
Manager Design Copper C	congestion value (vehicle*mile/hour)	438,894
Rodwood Baron Rodwood	Total peak hour all-vehicle delay	
Mark And	(vehicle*hour)	210.4
Amenined Are service for servi	Average peak hour freight congestion	
Contraction of the Contraction o	value (turck*mile/hour)	38,582
	Total peak hour freight delay	
	(turck*hour)	18.5
I-680 Alamo	Length (mile)	1.74
S c c c c c c c c c c c c c c c c c c c	Direction	North
Pines on Ct Sos Dt	County	Contra Costa
ore in regarin	City	Alamo
San Luis Rd	Average total volume	24,612
Valla Cr	Average truck volume	1,705
Sa al-Dr.	Average share of trucks	6.93%
S Engin Says of	Congestion speed (mile/h)	34.70
Alvarado Ave	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	696,772
Maria Pi E Via Rosia.	Total peak hour all-vehicle delay	, :
Wiele Pri	(vehicle*hour)	124.1
The second secon		
Capital CF Fund CC	Average peak hour freight congestion	
CLE MICE S	Average peak hour freight congestion value (truck*mile/hour)	48.269
Capital Co. Kom C.	Average peak hour freight congestion value (truck*mile/hour) Total peak hour freight delay	48,269

I-580 @ I-80	Length (mile)	0.21
	Direction	East
THE AND THE PARK A	County	Alameda
	City	Oakland
PAN AIP	Average total volume	33,302
	Average truck volume	1,773
or special No.	Average share of trucks	5.32%
Home Depot W MSE	Congestion speed (mile/h)	28.90
The state of the s	Average peak hour all-vehicle	20.70
	congestion value (vehicle*mile/hour)	870,228
	Total peak hour all-vehicle delay	
	(vehicle*hour)	114.6
Ethic St.	Average peak hour freight congestion	
	value (truck*mile/hour)	46,331
To the state of th	Total peak hour freight delay	,
	(truck*hour)	6.1
I-880 Milpitas	Length (mile)	2.07
Paris Segunal P	Direction	North
Day Any	County	Santa Clara
To sia Factory (26.2)	City	Milpitas
880	Average total volume	30,873
W Marie	Average truck volume	2,880
	Average share of trucks	9.32%
Mad Storen	Congestion speed (mile/h)	45.00
The state of the s	Average peak hour all-vehicle	
All and Sun	congestion value (vehicle*mile/hour)	301,151
	Total peak hour all-vehicle delay	
See Jacklin Roz	(vehicle*hour)	108.3
	Average peak hour freight congestion	
11 2000	value (truck*mile/hour)	28,093
Milpitas	Total peak hour freight delay	
Jviso g	(truck*hour)	10.1
I-880@US-101	Length (mile)	0.13
	Direction	South
	County	Santa Clara
	City	Santa Clara
	Average total volume	25,694
The state of the s	Average truck volume	2,262
	Average share of trucks	8.80%
and all and a second	Congestion speed (mile/h)	28.21
The state of the s	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	688,524
	Total peak hour all-vehicle delay	
2 Comment	(vehicle*hour)	57.9
	Average peak hour freight congestion	
	value (truck*mile/hour)	60,615
anion of the same	Total peak hour freight delay	
	(truck*hour)	5.1

Table 3 Profile of top 15 highway freight impact bottlenecks in the rest of CA

SR-78 San Marcos	Length (mile)	1.84
Hidden	Direction	East
Meadows	County	San Diego
a ror	City	San Marcos
Vista	Average total volume	4,504
You Springs Rd 15	Average truck volume	168
29 Monte Vieta Dr. Burera Cong. Par	Average share of trucks	3.74%
78)	Congestion speed (mile/h)	34.70
A solution as	Average peak hour all-vehicle	
And the state of t	congestion value (vehicle*mile/hour)	87,598
State of the Management of the State of the	Total peak hour all-vehicle delay	,
San Marcos	(vehicle*hour)	88.1
CRS12W San No.	Average peak hour freight congestion	5.51
A CONTROL OF THE PARTY OF THE P	value (truck*mile/hour)	3,273
Wow.	Total peak hour freight delay	-,
	(truck*hour)	3.3
I-5 San Diego	Length (mile)	0.94
	Direction	North
	County	San Diego
Tomas Camino Real Composition	City	San Diego
	Average total volume	5,617
	Average truck volume	179
	Average share of trucks	3.13%
Canno	Congestion speed (mile/h)	28.97
Legoland / Crossings w	Average peak hour all-vehicle	
Religion	congestion value (vehicle*mile/hour)	145,864
	Total peak hour all-vehicle delay	
Pomettia. Park	(vehicle*hour)	86.2
	Average peak hour freight congestion	
oran a track	value (truck*mile/hour)	4,655
Aviany	Total peak hour freight delay	
C liab	(truck*hour)	2.8
I-15 San Diego	Length (mile)	0.37
Ra Carlotte Company	Direction	South
E Jan	County	San Diego
163 Legar	City	San Diego
NEUKO //	Average total volume	5,731
	Average truck volume	168
52	Average share of trucks	2.95%
Clairemon's Mesa Blvd	Congestion speed (mile/h)	23.40
Mesa Blvd	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	181,639
274 Salbos Ave 5	Total peak hour all-vehicle delay	*
A _{Lin} ts Can	(vehicle*hour)	52.1
Montgomery 7g		·
THE PART OF THE PA	value (truck*mile/hour)	5,328
		- ,
San Diego Idesa Cotlege	Total peak hour freight delay	
Diego No Camp	Total peak hour all-vehicle delay (vehicle*hour) Average peak hour freight congestion	52

I-80 Bridge West Sacramento	Length (mile)	0.70
2 55 Diago (Test Suciamento	Direction Direction	North
	County	Sacramento
	City	Sacramento
	Average total volume	4,502
	Average truck volume	
ATTACK TO THE PART OF THE PART	Average truck volume Average share of trucks	1.47%
Park	Congestion speed (mile/h)	33.57
Haggin Oaks Golf	Average peak hour all-vehicle	33.37
Edison	congestion value (vehicle*mile/hour)	99,687
SYSTEM TO THE THE REAL PROPERTY OF THE PARTY	Total peak hour all-vehicle delay	77,007
	(vehicle*hour)	36.5
Del Paso Country	Average peak hour freight congestion	30.3
Marconi Ave	value (truck*mile/hour)	1,457
1 以展 7 以准皿 发现V	Total peak hour freight delay	1,737
	(truck*hour)	0.5
I-80 Sacramento central	Length (mile)	0.50
1-00 Sacramento centrar	Direction Direction	North
	County	Sacramento
	City	Sacramento
	Average total volume	4,435
	Average truck volume	283
	Average share of trucks	6.69%
Capital Scip Link	Congestion speed (mile/h)	30.02
S Charles S S S S S S S S S S S S S S S S S S S	Average peak hour all-vehicle	
Damestory Ary D 51 C 51 Month Art	congestion value (vehicle*mile/hour)	121,182
	Total peak hour all-vehicle delay	, -
Government Alich Gall	(vehicle*hour)	33.6
And the state of t	Average peak hour freight congestion	
Secret The state of the state o	value (truck*mile/hour)	7,723
Car Salah Tai	Total peak hour freight delay	,
No. 1 Sec. 1 Sec	(truck*hour)	2.1
I-5 Sacramento	Length (mile)	0.32
E F/Osl	Direction	North
	County	Sacramento
3 Richards Blvd	City	Sacramento
Towns to	Average total volume	5,424
en to Ave C St	Average truck volume	113
	Average share of trucks	1.85%
84 JS: PS: \$	Congestion speed (mile/h)	26.95
Raley Sacramento St.	Average peak hour all-vehicle	
Capitol Park L S.	congestion value (vehicle*mile/hour)	130,023
6 5 50	Total peak hour all-vehicle delay	•
10 10 10 10 10 10 10 10 10 10 10 10 10 1	(vehicle*hour)	32.9
30 BR (160)	Average peak hour freight congestion	
Broadway BR W	value (truck*mile/hour)	2,720
trained 50 GW.S.	Total peak hour freight delay	2,720
S CARROLL AND ASSESSED ASSESSE	(truck*hour)	0.7

I-8 San Diego	Length (mile)	0.42
Ba	Direction	South
	County	San Diego
	City	San Diego
	Average total volume	6,042
	Average truck volume	83
Rd 2	Average share of trucks	1.37%
Dustomm	Congestion speed (mile/h)	32.73
	Average peak hour all-vehicle	32.73
	congestion value (vehicle*mile/hour)	134,525
	Total peak hour all-vehicle delay	10 .,620
15	(vehicle*hour)	31.0
	Average peak hour freight congestion	
	value (truck*mile/hour)	1,844
Et Cajon Sivid	Total peak hour freight delay	,
5 Universit	(4 1-*1)	0.4
SR-65 Roseville	Length (mile)	0.24
Obstroh Pulmary Comany	Direction	South
	County	Placer
	City	Roseville
	Average total volume	2,742
	Average truck volume	145
Love	Average share of trucks	5.20%
	Congestion speed (mile/h)	28.80
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	72,075
	Total peak hour all-vehicle delay	
	(vehicle*hour)	10.8
	Average peak hour freight congestion	
	value (truck*mile/hour)	3,803
Highland Folkle Dr	Total peak hour freight delay	
	(truck*hour)	0.6
SR-125 San Diego	Length (mile)	0.16
13 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	Direction	South
Aster Pain Contain	County	San Diego
SCREONS;	City	La Mesa
and the Oil	Average total volume	5,836
et Cajon Blost January Ave Lamon Ave	Average truck volume	225
La Mesa	Average share of trucks	3.83%
Golondry St. Carolina St. Carol	Congestion speed (mile/h)	35.25
Alexandra (B)	Average peak hour all-vehicle	
Tropico l	congestion value (vehicle*mile/hour)	117,706
Sign to Diego Howard Gimme	Total peak hour all-vehicle delay	
other the tridge DI	(vehicle*hour)	9.6
A A County	Average peak hour freight congestion	
er Kins 33	value (truck*mile/hour)	4,538
Spring Valle	Total peak hour freight delay	
opting value	(truck*hour)	0.4

SR-99 Salida/Modesto	Length (mile)	4.35
5/43	Direction	West
Ripon S S Saw	County	Stanislaus
	City	Salida-Modesto
	Average total volume	1,243
man /	Average truck volume	160
PIO Kiernan Ava	Average share of trucks	12.21%
Salida Salida	Congestion speed (mile/h)	50.50
Pelandala Ave	Average peak hour all-vehicle	
FA FA	congestion value (vehicle*mile/hour)	8,056
Beckwith Rd	Total peak hour all-vehicle delay	
	(vehicle*hour)	8.8
No de Av	Average peak hour freight congestion	
Blue Gum Ave	value (truck*mile/hour)	1,035
partie	Total peak hour freight delay	,
Kansus Ave	(truck*hour)	1.1
I-80 Exposition Sacramento	Length (mile)	0.09
	Direction	South
160 Fee DI	County	Sacramento
to the second	City	Sacramento
	Average total volume	4,751
REI	Average truck volume	163
Ex	Average share of trucks	3.31%
Exposition Blvd	Congestion speed (mile/h)	27.05
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	122,933
	Total peak hour all-vehicle delay	
	(vehicle*hour)	8.0
	Average peak hour freight congestion	
	value (truck*mile/hour)	4,220
	Total peak hour freight delay	
	(truck*hour)	0.3
I-80 Arden Sacramento	Length (mile)	0.38
Cannon El Camino Ave	Direction	North
	County	Sacramento
Wo Silica Ave Bab	City	Sacramento
Silica Ave		3,505
Wantendo Cormorado Cormorado Agricado A	Average truck volume	257
	Average share of trucks	10.98%
	Congestion speed (mile/h)	45.12
	Average peak hour all-vehicle	
The last of the la	congestion value (vehicle*mile/hour)	44,536
s_Way Arden	Total peak hour all-vehicle delay	
Fair Mall	(vehicle*hour)	5.3
Fee DI	Average peak hour freight congestion	
we park Bad	value (truck*mile/hour)	3,268
Response.	Total peak hour freight delay	•
Hear	(truck*hour)	0.4

SR-99 Manteca	Length (mile)	0.85
	Direction	South
	County	Stanislaus
	City	Manteca
anch Can	Average total volume	3,740
Latirop Rd E Latirop Rd	Average truck volume	297
E Louise Ave	Average share of trucks	8.23%
throp Manteca	Congestion speed (mile/h)	51.95
4	Average peak hour all-vehicle	
A B B	congestion value (vehicle*mile/hour)	7,620
Mary Mary	Total peak hour all-vehicle delay	.,
100	(vehicle*hour)	3.4
E West Ripon Rd Ripon	Average peak hour freight congestion	
1 2	value (truck*mile/hour)	605
Comme a	Total peak hour freight delay	
1	(truck*hour)	0.3
SR-41 Fresno	Length (mile)	0.08
St. The state of	Direction	South
	County	Fresno
E Herndom Ave	City	Fresno
	Average total volume	4,272
	Average truck volume	231
	Average share of trucks	5.28%
Ave E Bullard Ave	Congestion speed (mile/h)	46.65
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	36,212
N Shaw Ave	Total peak hour all-vehicle delay	
Fashon W	(vehicle*hour)	1.1
A A A A A A A A A A A A A A A A A A A	Average peak hour freight congestion	
A A A	value (truck*mile/hour)	1,961
E Ashlan Avec	Total peak hour freight delay	
	(truck*hour)	0.1
SR-99 Modesto	Length (mile)	0.51
W Roseburg Ave	Direction	South
Cecl Way	County	Stanislaus
Seg ding	City	Modesto
2 0 5	Average total volume	4,791
99) W Mortis Ava	Average truck volume	427
Stoddard Ave 100	Average share of trucks	8.90%
Kanaas Ave	Congestion speed (mile/h)	53.72
Elm Ave	Average peak hour all-vehicle	
Laure Ave Modesto	congestion value (vehicle*mile/hour)	14,680
	Total peak hour all-vehicle delay	
10 May 1 May	(vehicle*hour)	1.1
7 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1	Average peak hour freight congestion	
Mark David & M	value (truck*mile/hour)	1,308
California Ave Tiel w Sierra Dr	Total peak hour freight delay	
	(truck*hour)	0.1

Table 4 Profile of top 15 arterial freight impact bottlenecks in the Los Angeles region

Ave W @ State Highway 138	Length (mile)	3.43
E Avenue J	Direction Direction	East
nue K Saddelback State Park u	County	Los Angeles
The state of the s	City	Unincoporated
ARI.	Average total volume	4,163
E Avenue O	Average truck volume	259
1458	Average thek volume Average share of trucks	6.22%
ri oue Rd	Congestion speed (mile/h)	6.70
Avenue T	Average peak hour all-vehicle	0.70
49	congestion value (vehicle*mile/hour)	180,231
Pearblossom	Total peak hour all-vehicle delay	100,231
Liano 2 Company Compan	(vehicle*hour)	1735.9
Fort Toyon Rid	Average peak hour freight congestion	1755.7
Valyermo Pinon Hills	value (truck*mile/hour)	11,213
Bigg	Total peak hour freight delay	11,213
The Huy	(truck*hour)	108
Glendale Blvd @ N Alvarado St	Length (mile)	0.52
Giendale Divu @ IV Aivarado St	Direction Direction	North
on Format Lawn Americal Peak Glendale	County	Los Angeles
	City	Los Angeles
Low Patro 13 mm	Average total volume	19,503
The state of the s	Average total volume Average truck volume	544
wood Blvd Silver d Elynia-Campon	Average thek volume Average share of trucks	2.79%
W Sun set Blvd Reservoir	Congestion speed (mile/h)	5.60
	Average peak hour all-vehicle	3.00
Bytum Park	congestion value (vehicle*mile/hour)	526,689
To a company	Total peak hour all-vehicle delay	320,007
2 Hopping Echo Py Codge Station	(vehicle*hour)	1351.6
A SA TO Block tomble of the Main of the Ma	Average peak hour freight congestion	1331.0
Habire-Bive ¹⁰	value (truck*mile/hour)	14,691
is the state of th	Total peak hour freight delay	1,,0,1
Los Angeles 100	(truck*hour)	37.7
Ventura Blvd @ I-405	Length (mile)	0.16
Camarillo St o	Direction	East
	County	Los Angeles
Milbank S1 Sherman Oaks. Galeres Shepping. Av Starting October Starting October Shepping.	City	Los Angeles
Sherman Oaks. Sherman Oaks. Galeten Shopping Galeten Shopping Conter Conter Conter	Average total volume	11,654
Canter Bas GH	Average truck volume	750
Oaks Galleria	Average share of trucks	6.44%
	Congestion speed (mile/h)	5.40
Dickens St.	Average peak hour all-vehicle	
The State of the S	congestion value (vehicle*mile/hour)	275,205
Greenleaf St	Total peak hour all-vehicle delay	,_00
Varden St. Saman Out	(vehicle*hour)	1199.6
The state of the s		11///
	Average peak hour freight congestion I	
Greenlest 2 Sutton St	Average peak hour freight congestion value (truck*mile/hour)	17.711
Cir 63A Greenlear	Value (truck*mile/hour) Total peak hour freight delay	17,711

Van Buren Blvd @ Jurupa Ave	Length (mile)	1.31
Poular Square Dr Dg Brand Dr Dg	Direction	South
St. Company of the Co	County	Riverside
A state and Claudeste Ot	City	Riverside
tute Part of the Part	Average total volume	15,560
Conter al. Rd	Average truck volume	322
James Joseph	Average share of trucks	2.07%
	Congestion speed (mile/h)	13.50
Note Clastry Late Size Real	Average peak hour all-vehicle	13.50
Julian Dr	congestion value (vehicle*mile/hour)	549,094
Andrew Sistems St.	Total peak hour all-vehicle delay	2.5,05.
Batind Suck	(vehicle*hour)	1024.4
Mandalay CT Alfadena Dr 👙 🐧	Average peak hour freight congestion	
Damingol Center	value (truck*mile/hour)	11,363
Called St.	Total peak hour freight delay	,
St. Straight Sylvan Dr. St	(truck*hour)	21.2
State Highway 138	Length (mile)	1.02
	Direction	East
TOTAL PROPERTY.	County	San Bernardino
All	City	Unincoporated
	Average total volume	3,406
	Average truck volume	426
No.	Average share of trucks	12.51%
	Congestion speed (mile/h)	5.10
	Average peak hour all-vehicle	
Rim of	congestion value (vehicle*mile/hour)	173,298
	Total peak hour all-vehicle delay	
Canyon &	(vehicle*hour)	617.2
	Average peak hour freight congestion	
The second secon	value (truck*mile/hour)	21,675
	Total peak hour freight delay	
00 2 - 2 / FEE - FEE STA . ZSO	(truck*hour)	77.2
Valley Blvd @ I-605	Length (mile)	0.13
	Direction	East
College May	County	Los Angeles
The state of the s	City	El Monte
	Average total volume	10,383
	Average truck volume	407
	Average share of trucks	3.92%
	Congestion speed (mile/h)	5.00
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	293,581
350	Total peak hour all-vehicle delay	
	(vehicle*hour)	234.7
	Average peak hour freight congestion	
009	value (truck*mile/hour)	11,508
	Total peak hour freight delay	
	(truck*hour)	9.2

S La Cienega Blvd @ Fairview Blvd	Length (mile)	0.36
1737th SC 7/1/3551-L AND	Direction	North
W Slauson Ave	County	Los Angeles
D W SEM PI	City	Los Angeles
Bo o de	Average total volume	13,619
S Croft Av S Knoss Av	Average truck volume	337
W 63rd St St Parent Frank St	Average truck volume Average share of trucks	2.47%
W 8411 School Carrier W 63/d St School Carrier Scho	Congestion speed (mile/h)	14.20
W 641	Average peak hour all-vehicle	14.20
W Fairview Bivd W Fairview Bivd W Ellis.	congestion value (vehicle*mile/hour)	429,302
W BINES	Total peak hour all-vehicle delay	427,302
W Centinela Ave	(vehicle*hour)	234.4
The Mounton St. Walter	Average peak hour freight congestion	234.4
W Plymouth S	value (truck*mile/hour)	10,623
Signal Street St	Total peak hour freight delay	10,023
Mon School Land To Land Land Land Land Land Land Land Land	(truck*hour)	5.8
Garfield Ave @ I-5	Length (mile)	0.15
Guinela Tive C 16	Direction	North
	County	Los Angeles
	City	Commerce
6	Average total volume	9,512
METROLING B.	Average truck volume	343
The state of the s	Average share of trucks	3.61%
The state of the s	Congestion speed (mile/h)	5.40
	Average peak hour all-vehicle	3.10
Bandin Bird	congestion value (vehicle*mile/hour)	284,889
Blva	Total peak hour all-vehicle delay	201,009
Con	(vehicle*hour)	230.2
Canning St.	Average peak hour freight congestion	230.2
The state of the s	value (truck*mile/hour)	10,273
	Total peak hour freight delay	10,275
	(truck*hour)	8.3
W 6th St @ SR-91	Length (mile)	0.27
VI OUI SE C SIX JI	Direction	East
And the state of t	County	Riverside
To the state of th	City	Corona
Pomos nu differ	Average total volume	9,400
Poncia No Tournatur Car	Average total volume Average truck volume	323
(1) WHENCE THE PROPERTY VIEW AVE	Average share of trucks	3.44%
Florings Rd Str. St.	Congestion speed (mile/h)	10.00
	Average peak hour all-vehicle	10.00
graff Bryann Chaire	congestion value (vehicle*mile/hour)	345,326
grand of country	Total peak hour all-vehicle delay	3 13,320
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(vehicle*hour)	224.1
	Average peak hour freight congestion	224.1
benefits the state of the state	value (truck*mile/hour)	11,866
	Total peak hour freight delay	11,000
	i i oui bear neu neith deav	

E Anaheim St @ Alameda St	Length (mile)	0.46
200 - 100 -	Direction	East
C Exercises 61	County	Los Angeles
Carminary Ecolor St.	City	Los Angeles
E Process Count May E Manu contains E	Average total volume	7,960
EMS!	Average truck volume	499
Thenard E Young 31 Prent 31	Average share of trucks	6.22%
E Countil E Coun	Congestion speed (mile/h)	16.90
The state of the s	Average peak hour all-vehicle	
E Application (1)	congestion value (vehicle*mile/hour)	171,754
	Total peak hour all-vehicle delay	,
traff L. C.	(vehicle*hour)	161.1
Eli St. E.	Average peak hour freight congestion	
c91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	value (truck*mile/hour)	10,767
	Total peak hour freight delay	
Annotacji file	(truck*hour)	10.1
Slauson Ave @ I-605	Length (mile)	0.10
Wang Company	Direction	East
	County	Los Angeles
Piore	City	West Whittier-Los Nietos
Sch	Average total volume	9,460
	Average truck volume	335
Mooding III	Average share of trucks	3.54%
	Congestion speed (mile/h)	5.30
Paneri High School	Average peak hour all-vehicle	
11/400	congestion value (vehicle*mile/hour)	284,817
Same of the second seco	Total peak hour all-vehicle delay	
Micros Ro	(vehicle*hour)	158.1
	Average peak hour freight congestion	
Missa na	value (truck*mile/hour)	10,086
Maria Ha	Total peak hour freight delay	
	(truck*hour)	5.6
W Willow St @ Fashion Ave	Length (mile)	0.18
France Ave Ave Ave	Direction	East
Canna sapinan	County	Long Beach
Dett. Can Ave at	City	Long Beach
28th S1 W 28th S1 W 3 W 30 W 28th S1 U U U U U U U U U U U U U U U U U U	Average total volume	8,989
	Average truck volume	476
27th St o W 27th St W 27th St	Average share of trucks	5.32%
	Congestion speed (mile/h)	9.10
W 26m W 39	Average peak hour all-vehicle	
ga W 23 th Way	congestion value (vehicle*mile/hour)	201,157
W 25th St	Total peak hour all-vehicle delay	
in Ave	(vehicle*hour)	134.1
AND CREEK AND CR	Average peak hour freight congestion	
W. Burnett St. E	value (truck*mile/hour)	10,652
	Total peak hour freight delay	,
	Total peak floar freight deat,	

W Sunset Blvd @ N Beaudry Ave	Length (mile)	0.13
	Direction	North
第7周高高-18/8484	County	Los Angeles
Town of the second of the seco	City	Los Angeles
Marion Ave	Average total volume	11,959
THE FIRST STATE OF ST	Average truck volume	414
	Average share of trucks	3.48%
	Congestion speed (mile/h)	4.49
New Command	Average peak hour all-vehicle	
Academy Academy	congestion value (vehicle*mile/hour)	265,582
	Total peak hour all-vehicle delay (vehicle*hour)	60.7
The state of the s	Average peak hour freight congestion	
	value (truck*mile/hour)	9,194
	Total peak hour freight delay	
	(truck*hour)	2.1
S Sepulveda Blvd @ W Century Blvd	Length (mile)	0.09
W 98th St	Direction	South
	County	Los Angeles
	City	Los Angeles
+	Average total volume	15,749
4	Average truck volume	578
	Average share of trucks	3.67%
W Century Blvd	Congestion speed (mile/h)	14.10
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	301,166
	Total peak hour all-vehicle delay	
World Way	(vehicle*hour)	59.9
(n) +	Average peak hour freight congestion	44.070
ld Way 8.2	value (truck*mile/hour)	11,053
Terminal	Total peak hour freight delay	2.2
8	(truck*hour)	2.2
E Florence Ave @ Eastern Ave	Length (mile)	0.04
Citibank	Direction	East
BIG 5 SPORTING GOODS	County	Los Angeles
	City	Bell Gardens
922	Average total volume	9,191
	Average truck volume	406
HOP	Average share of trucks	4.42%
	Congestion speed (mile/h)	5.30
9900	Average peak hour all-vehicle	256 207
	congestion value (vehicle*mile/hour)	256,397
sno	Total peak hour all-vehicle delay	54.2
102	(vehicle*hour)	54.3
2/	Average peak hour freight congestion	44.55
	value (truck*mile/hour)	11,326
	Total peak hour freight delay	
<u> </u>	(truck*hour)	2.4

Table 5 Profile of top 15 arterial freight impact bottlenecks in the San Francisco region

Stony Point Rd @ Hearn Ave	Length (mile)	0.65
	Direction	South
Bossom Edgewater Dr Santa D	County	Sonoma
Fark Pearblossom Dr Wood Cir	City	Santa Rosa
Santa Rosa Park Meadow Dr Heath Ne Southeest Community	Average total volume	4,701
W Hearn Ave	Average truck volume	224
Bamdance Ln Bamdance Ln	Average thek volume Average share of trucks	4.77%
a Drug	Congestion speed (mile/h)	8.03
Yuba Dr S W N N N N N N N N N N N N N N N N N N	Average peak hour all-vehicle	0.03
Mule Deer Ln	congestion value (vehicle*mile/hour)	150,642
Du	Total peak hour all-vehicle delay	130,012
± Ludwig-Ave	(vehicle*hour)	304.3
Bellevue Aye Sania Rosa	Average peak hour freight congestion	304.3
	value (truck*mile/hour)	7,178
Webber Lin	Total peak hour freight delay	7,176
w w	(truck*hour)	14.5
Farmers Ln @ SR-12		
Farmers Ln @ SR-12	Length (mile)	0.33
Supplied Com Co	Direction	South
Street Street	County	Sonoma
	City	Santa Rosa
Money Or	Average total volume	8,081
The state of the s	Average truck volume	5.09%
The state of the s	Average share of trucks	
The state of the s	Congestion speed (mile/h)	12.96
None and the second sec	Average peak hour all-vehicle congestion value (vehicle*mile/hour)	127.700
Bridge Ave	Total peak hour all-vehicle delay	137,790
Secretary Delivery Control Control	(vehicle*hour)	116.0
The state of the s	Average peak hour freight congestion	110.0
	value (truck*mile/hour)	7,008
	Total peak hour freight delay	7,008
per vate to	(truck*hour)	5.9
C 1D1 1 0 1 500		
Sunol Blvd @ I-580	Length (mile)	0.42
	Direction	North
Sterling Come D	County	Alameda
Phination II	City	Pleasanton
2 2 20	Average total volume	4,285
0.00	Average truck volume	432
Sy can	Average share of trucks	10.09%
Danish Dec	Congestion speed (mile/h)	12.35
The state of the s	Average peak hour all-vehicle	
A CALL MANAGER	congestion value (vehicle*mile/hour)	97,147
D. to D. to	Total peak hour all-vehicle delay	A : -
AMINIST S	(vehicle*hour)	94.2
Matthew CV Mockings	Average peak hour freight congestion	
Maples Ct	value (truck*mile/hour)	9,794
Contraction Romeo Ct	Total peak hour freight delay	
	(truck*hour)	9.5

Morello Ave @ Rolling Hill Way	Length (mile)	0.17
Muir R _d	Direction	North
Airold	County	Contra Costa
Roma	City	Martinez
Roy Walter Community of the Community of	Average total volume	4,344
TAND DE SOLON CL	Average truck volume	355
Ros Ros	Average truck volume Average share of trucks	8.18%
P _G	Congestion speed (mile/h)	6.92
	Average peak hour all-vehicle	0.72
Co Made Do	congestion value (vehicle*mile/hour)	122,232
Heligo Cray	Total peak hour all-vehicle delay	122,232
Rain	(vehicle*hour)	85.7
Tur Way	Average peak hour freight congestion	65.7
STONOL	value (truck*mile/hour)	9,989
Pine Me adow	Total peak hour freight delay	9,909
Go# Course	(truck*hour)	7.0
Bay Farm Island Bridge	Length (mile)	
Day Farm Island Bridge	Direction	0.32 South
	County	Alameda
		Alameda
A North Annie	City A years on total yellims	
	Average total volume Average truck volume	1,557 277
	Average truck volume Average share of trucks	6.10%
	Congestion speed (mile/h)	6.02
	Average peak hour all-vehicle	0.02
	congestion value (vehicle*mile/hour)	46,744
Now May all part to	Total peak hour all-vehicle delay	40,744
mahagia Conne Ci	(vehicle*hour)	70.8
	Average peak hour freight congestion	70.8
	value (truck*mile/hour)	8,316
	Total peak hour freight delay	0,510
State of the state	(truck*hour)	12.6
Shattuck Ave @ Dwight Way	Length (mile)	0.33
Stople: W worth.	Direction	South
Channing Way	County	Alameda
Dollar Tree Haste St	City	Berkeley
Dwight Way	Average total volume	7,819
DWIGHT.	Average truck volume	689
Blake, St.	Average share of trucks	8.81%
Parket St.	Congestion speed (mile/h)	18.27
Carleton ST	Average peak hour all-vehicle	00.000
Deity St O	congestion value (vehicle*mile/hour)	82,003
SI	Total peak hour all-vehicle delay	
Derby. St. Ward St.	(vehicle*hour)	55.3
Ward St.	Average peak hour freight congestion	# a = -
Stuart SC S S Oregon St	value (truck*mile/hour)	7,226
S Oxegon	Total peak hour freight delay	
Oregon SIE	(truck*hour)	4.87

Fremont St @ Harrison St	Length (mile)	0.11
4	Direction	North
to the state of th	County	San Francisco
Gmirtouxi San Francic	City	San Francisco
The state of the s	Average total volume	7,850
	Average truck volume	1,165
inip	Average share of trucks	14.85%
and the state of t	Congestion speed (mile/h)	17.34
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	60,165
igut E One	Total peak hour all-vehicle delay	·
- Sincon Hill	(vehicle*hour)	16.2
	Average peak hour freight congestion	
	value (truck*mile/hour)	8,929
	Total peak hour freight delay	
The state of the s	(truck*hour)	2.4
W Santa Clara St @ Notre Dame Ave	Length (mile)	0.08
18	Direction	West
	County	Santa Clara
	City	San Jose
	Average total volume	7,497
	Average truck volume	921
P a class St	Average share of trucks	12.29%
N. W. W.	Congestion speed (mile/h)	16.84
	Average peak hour all-vehicle	
Halaide Anza	congestion value (vehicle*mile/hour)	61,205
8	Total peak hour all-vehicle delay	
35.	(vehicle*hour)	11.4
W Santa Clair	Average peak hour freight congestion	
0	value (truck*mile/hour)	7,519
, Cilibank	Total peak hour freight delay	
	(truck*hour)	1.4
Mission Street @ New Montgomery St	Length (mile)	0.06
To The State of the Asia	Direction	South
	County	San Francisco
Control Country Countr	City	San Francisco
	Average total volume	3,962
	Average truck volume	965
We have been sent to the sent	Average share of trucks	24.36%
Here Bell He Chere	Congestion speed (mile/h)	13.21
	Average peak hour all-vehicle	
g significant and a significan	congestion value (vehicle*mile/hour)	45,889
	Total peak hour all-vehicle delay	
	(vehicle*hour)	7.8
The state of the s	Average peak hour freight congestion	
Har Ban Bellie	value (truck*mile/hour)	11,177
	Total peak hour freight delay	,
Moscone Center	(truck*hour)	1.9

Masonic Ave @ Felt St	Length (mile)	0.07
G S G Fatton St	Direction	South
Fulton St.	County	San Francisco
	City	San Francisco
and Embers and Comment of the Commen	Average total volume	8,043
	Average truck volume	432
Hayer St.	Average share of trucks	5.39%
	Congestion speed (mile/h)	10.17
	Average peak hour all-vehicle	
Fall S1	congestion value (vehicle*mile/hour)	139,282
Prifundia Oak 5	Total peak hour all-vehicle delay	
Oak St.	(vehicle*hour)	35.4
	Average peak hour freight congestion	
Page St	value (truck*mile/hour)	7,481
Page 31	Total peak hour freight delay	
Halght St	(truck*hour)	1.9
Market St @ 3rd St	Length (mile)	0.31
Pine 51 M	Direction	North
Rush SI.	County	San Francisco
Harlan PI Sutter St Crocker	City	San Francisco
Galleria BART BART Montgomery Butterful Mentagenery	Average total volume	11,490
Post St Union Squam	Average truck volume	2,228
Uhisa Squara	Average share of trucks	19.39%
THE PARTY OF THE P	Congestion speed (mile/h)	20.70
OFAIRE S LOW	Average peak hour all-vehicle	
S C DELIS SI THE STATE OF THE S	congestion value (vehicle*mile/hour)	49,410
No. Fort	Total peak hour all-vehicle delay	
San Francisco Gardons Center Pitza	(vehicle*hour)	32.0
BART- Formell Street Metraon Moscone	Average peak hour freight congestion	
Center Moscone	value (truck*mile/hour)	9,581
Conter West Was to the Conter West of the Conter West of the Conter West of the Content of the C	Total peak hour freight delay	
	(truck*hour)	6.2
N 1st St @ W Rosemary St	Length (mile)	0.11
	Direction	North
E grant & E grant for gran	County	Santa Clara
Elementary School	City	San Jose
	Average total volume	7,978
Re E	Average truck volume	623
W Cies X X X	Average share of trucks	7.80%
	Congestion speed (mile/h)	15.11
	Average peak hour all-vehicle	
The state of the s	congestion value (vehicle*mile/hour)	118,774
on Air Burn	Total peak hour all-vehicle delay	
and the state of t	(vehicle*hour)	28.2
	Average peak hour freight congestion	
	value (truck*mile/hour)	9,275
	Total peak hour freight delay	
inge Ave	(truck*hour)	2.2

Ygnacio Valley Rd @ I-580	Length (mile)	0.12
	Direction	West
in a feet of the second	County	Contra Costa
grade has	City	Walnut Creek
Weekler A.	Average total volume	8,053
	Average truck volume	458
The same of the sa	Average share of trucks	5.69%
	Congestion speed (mile/h)	11.25
	Average peak hour all-vehicle	
	congestion value (vehicle*mile/hour)	151,143
- Vista Remosa	Total peak hour all-vehicle delay	
Genus Ass	(vehicle*hour)	52.7
	Average peak hour freight congestion	
	value (truck*mile/hour)	8,596
	Total peak hour freight delay	
Walter -	(truck*hour)	3.0
4th Street @ Folsom St	Length (mile)	0.12
Yerba Buerta Gardens	Direction	South
	County	San Francisco
Metreon	City	San Francisco
Center	Average total volume	15,673
Moscone Center	Average truck volume	2,653
West	Average share of trucks	16.93%
a state of the sta	Congestion speed (mile/h)	16.51
	Average peak hour all-vehicle	
niest niest st	congestion value (vehicle*mile/hour)	132,940
Tarten de la companya	Total peak hour all-vehicle delay	
con to shad a clark barbad a sale was	(vehicle*hour)	38.4
Study Hands Jake	Average peak hour freight congestion	22.502
100	value (truck*mile/hour)	22,503
10 may 21 12 8	Total peak hour freight delay	C.5
VAXATANI III. VAIII III VAIII III VAIII III VAIII III	(truck*hour)	6.5
Hegenberger Rd @ Edgewater Dr	Length (mile)	0.16
	Direction	North
	County	Alameda
	City	Oakland
	Average total volume	11,822
Lang Ara	Average truck volume	905
- Osse 57- is	Average share of trucks	7.66%
in Sometime to	Congestion speed (mile/h)	18.95
Routed Recular Control	Average peak hour all-vehicle	120 575
	congestion value (vehicle*mile/hour)	130,565
Manne St.	Total peak hour all-vehicle delay	26.6
Cajo Re	(vehicle*hour)	36.6
Toma Ray	Average peak hour freight congestion value (truck*mile/hour)	9,995
the water Re	Total peak hour freight delay	7,795
The contract of the contract o		20
	(truck*hour)	2.8

Table 6 Freight impact areas in relation to major airports in the Los Angeles region

Bob Hope Airport	2013 Short Tons of Air Cargo	53763
Com Park Sunland Tujung Day Fond Washing at Paucrosi	Facilities and services	FedEx and USPS have drop boxes available at BUR.
Sun Camon Park Satroy St Canyon Park Satroy St Canyon Park	Trade characteristics	In 2013 FedEx and UPS together accounted for approximately 93% of total air cargo at BUR.
Bob Hope Airport Bob Hope Airport Burbank Bur	Major freeway connection and bottlenecks involved	I-5, US-170, US-134 and I-210 are in close vicinity. One of the top 15 freight bottlenecks in the region, which is on I-210 is about 5 miles away.
John Wayne Airport	2013 Short Tons of Air Cargo	17827
Addison St. Control of the Control o	Facilities and services	/
Sonta	Trade characteristics	FedEx and UPS are the two all-cargo carriers at SNA with out-of-state destinations to Memphis, Tennessee and Louisville, Kentucky.
In Cota Mayne Airport Mayne Airport	Major freeway connection and bottlenecks involved	I-405, US-55, US-22, US-57 and I-5 are in close vicinity. The congestion on the I-405 is particularly severe. No top 15 highway or arterial freight bottlenecks are found in this region.
Los Angeles International Airport	2013 Short Tons of Air Cargo	1.9 million
Djark Vitta	Facilities and services	Mercury Air Cargo operates the largest airport refrigeration and perishable center on the U.S. West Coast. FedEx has a major regional cargo center at LAX.
Plays of Boy Indicated Annual Plays of Boy Lennard	Trade characteristics	More than 50 percent of air cargo activity is international in origin or destination.
Los Angeles International Airport	Major freeway connection and bottlenecks involved	I-405, and I-105 are in close vicinity. The congestion on the I-405 is particularly severe. Two of the top 15 arterial freight bottlenecks are in the region.

Long Beach Airport	2013 Short Tons of Air Cargo	26858
motor Cos pton Somerast Bird Bird Bird Bird Bird Bird Bird Bird	Facilities and services	Air cargo carriers, FedEx and UPS operate service in and out of LGB.
Lakewood Carson St Carson St Carson St	Trade characteristics	FedEx and UPS transport most of the packages through LGB. Alaska Airlines, US Airways, and JetBlue also provide cargo services.
Long Beach Airport Long Beach Airport Signal E Hill S Signal E Steam of Steam Stea	Major freeway connection and bottlenecks involved	I-710, CA-91, I-605 and I-405 are in close vicinity. Four of the top 15 highway freight bottlenecks and one of the top 15 arterial freight bottlenecks are in the region.
Ontario International Aiport	2013 Short Tons of Air Cargo	460500
2	Facilities and services	Major freight-only carriers that serve ONT include UPS, FedEx, Ameriflight, West Air, and Empire Airways.
GJANU G A-pp C	Trade characteristics	In 2013, UPS and FedEx together processed over 97 percent of ONT air freight. Over 13 percent of ONT air cargo
Ontario International Airport		was international.

Table 7 Freight impact areas in relation to major airports in the San Francisco region

Oakland International Airport	2013 Short Tons of Air Cargo	555473
About a grant Cargon Product Of the Cargon Cargon Of the C	Facilities and services	The largest carrier, FedEx, occupies 400,000± sqft of sorting, distribution, and warehouse space at OAK. UPS occupies another 50,000± sqft of space for cargo services.
America Company of the Company of th	Trade characteristics	OAK handles about 55 percent of Bay Area air cargo. FedEx operates its primary U.S. mainland gateway to Asia and the Pacific Rim at OAK.
Oakland International Airport	Major freeway connection and bottlenecks involved	I-80, I-880, and I-980 are in close vicinity. One of the top 15 highway freight bottlenecks and two of the top 15 arterial freight bottlenecks are in the region.
San Francisco International Airport	2013 Short Tons of Air Cargo	404015
San Francisco	Facilities and services	SFO's 11 cargo facilities provide over a million square feet of warehouse and office space.
International Airport Sarah Francisco International Airport Sarah Francisco International Airport Sarah Francisco International Airport	Trade characteristics	According to the 2013 Economic Impact Study of SFO, 29 percent of all California air exports that originated in the State passed through SFO.
La contraction of the contractio	Major freeway connection and bottlenecks involved	I-280, CA-92, US-101, and I-380 are in close vicinity. None of the top 15 highway freight bottlenecks and arterial freight bottlenecks are in the region.
San Jose International Airport	2013 Short Tons of Air Cargo	46810
Comparison	Facilities and services	The current Airport Master Plan identifies allcargo as occupying 300,000 square feet at SJC and bellycargo taking up 85,000 square feet.
San Jose International Airport	Trade characteristics	In 2012, SJC was the State's eighth largest air cargo airport by all-cargo landed weight, handling over six percent of Bay Area air cargo.
Coorts Co	Major freeway connection and bottlenecks involved	I-280, CA-87, CA-237, and I-880 are in close vicinity. Two of the top 15 highway freight bottlenecks and one of the top 15 arterial freight bottlenecks are in the region.

Table 8 Freight impact areas in relation to major seaports in the Los Angeles region

Port of Huenume	Maritime Area (acre)	165
Clinia Park Dy Lists Clinia Clinia Chila C	Port Infrastructure	Main channel depth: 35 feet Channel length: 2300 feet Berths: 6 deep draft and 1 shallow draft
W Woods Rd W Woods Rd W W W W W W W W W W W W W W W W W W	Trade characteristics	In 2015, Port of Hueneme completed container trade of 1,711,619 tons. It ranked at 120th among all 150 US ports in terms of trade tonage.
Channel Noor Item 1 1 1 1 1 1 1 1 1	Major freeway connection and bottlenecks involved	I-101 is in close vicinity. No significant freight impact areas are found in this region.
Port of Long Beach	Maritime Area (acre)	3200
Sardena Phramount Bell ow Esouthst Lakewood oo	Port Infrastructure	Channel depth: 76 feet Container terminals: 6 Deepwater berths: 80 Shipping terminals: 22
est son a so	Trade characteristics	In 2015, Port of Long Beach completed container trade of 78,164,597 tons. It ranked at 7th among all 150 US ports in terms of trade tonage.
San Pedro Bay Pedro Port of Los Angeles Port of Long Beach	Major freeway connection and bottlenecks involved	I-110, I-710, CA-91 and I-405 are in close vicinity. Three of the top 15 highway freight impact areas and two of the top 15 arterial freight impact areas are in the region.
Port of Los Angeles	Maritime Area (acre)	7500
Along Garden (9) Formount Bel Phramount Bel Phramount Bel Cakewood 80.	Port Infrastructure	Channel depth: 53 feet Container terminals: 9 Deepwater berths: 270 Cargo terminals: 23
comits a com	Trade characteristics	In 2015, Port of Los Angeles completed container trade of 60,187,840 tons. It ranked at 9th among all 150 US ports in terms of trade tonage.
Port of Los Angeles	Major freeway connection and bottlenecks involved	I-110, I-710, CA-91 and I-405 are in close vicinity. Three of the top 15 highway freight impact areas and two of the top 15 arterial freight impact areas are in the region.

Table 9 Freight impact areas in relation to major seaports in the San Francisco region

Port of Oakland	Maritime Area (acre)	1210
Figure 1 September 1 September 2 September	Port Infrastructure	Channel depth: 50 feet Marine terminals: 5 Deepwater berths: 18 Shoreline: 20 miles
Port of Oakland	Trade characteristics	In 2015, Port of Oakland completed container trade of 17,565,619 tons. It ranked at 36th among all 150 US ports in terms of trade tonage.
Apendo Ap	Major freeway connection and bottlenecks involved	I-80, I-580, I-880 and I-980 are in close vicinity. Three of the top 15 highway freight impact areas are in the region.
Port of Richmond	Maritime Area (acre)	200
San Listonia Company C	Port Infrastructure	Channel depth: 38 feet Terminals: 15 Shoreline: 32 miles Port does not handle containers
Port of Richmond	Trade characteristics	In 2015, Port of Richmond completed container trade of 28,529,178 tons. It ranked at 23rd among all 150 US ports in terms of trade tonage.
Operation of the state of the s	Major freeway connection and bottlenecks involved	I-80, and I-680 are in close vicinity. One of the top 15 highway freight impact areas is in the region.

Table 10 Freight impact areas in relation to major intermodal terminals in the Los Angeles region

BNSF LA (Hobart)	The city of site	Commerce
See	Facilities and services	Off-dock facility Connecting BNSF Railroad Current Capacity (lifts): 1,700,000
Other Parks due	Trade characteristics	In 2010, Hobart Yard handled a total of 966,474 lifts, of which 448,455 were marine containers and 518,019 were transloaded containers, domestic containers, and trailers
Communication of the state of t	Major freeway connection and impact areas involved	I-5, CA-60, and I-710 are in close vicinity. Two of the top 15 highway freight impact areas are in the region.
UP Los Angeles	The city of site	Commerce
Control of the second of the s	Facilities and services	Off-dock facility Connecting UP Railroad Current Capacity (lifts): 650,000
Grand Parker has True UP Los Angeles *** *** *** *** *** *** ***	Trade characteristics	It handled 411,469 lifts in 2010, of which only 36,862 were marine containers and 374,607 were transloaded containers, domestic containers, or trailers.
Come of the state	Major freeway connection and impact areas involved	I-5, CA-60, and I-710 are in close vicinity. Two of the top 15 highway freight impact areas are in the region.
UP ICTF	The city of site	Long Beach
Disjulii E Diminigare S S E Harrison St E Harrison St E Harrison St E Harrison St E Madison Ave E Madison Ave E Madison Ave E Adams Ave E E Adams Ave E E Adams Ave E E E 20th St E 20th St E E 20th S	Facilities and services	Near-dock facility Connecting UP Railroad Current Capacity (lifts): 760,000
The state of the s	Trade characteristics	In 2010, the ICTF had a lift volume of 421,744 containers, including 417,992 marine containers (about 15 percent of the total marine container lifts in the region).
W 2 80.51 W W 2 80.51 W W W W W W W W W W W W W W W W W W W	Major freeway connection and impact areas involved	I-405, and I-710 are in close vicinity. The congestion on the I-405 is particularly severe. One of the top 15 arterial freight impact areas is in the region.

UP LATC	The city of site	Los Angeles
Comments of the second of the	Facilities and services	Off-dock facility Connecting UP Railroad Current Capacity (lifts): 340,000
Amenda Am	Trade characteristics	In 2010, UP LATC handled184,023 lifts, of which only 8,757 were marine containers and 175,266 were transloaded containers, domestic containers and trailers.
Tiers to the state of the state	Major freeway connection and impact areas involved	I-110, US-101, I-10 and I-5 are in close vicinity. One of the top 15 highway freight impact areas and two o fthe top arteiral freight impact areas are in the region.
UP City of Industry	The city of site	Industry
Temple Ave	Facilities and services	Off-dock facility Connecting UP Railroad Current Capacity (lifts): 232,000
UP City of Industry.	Trade characteristics	In 2010, it handled 231,279 lifts, of which only 103 were marine containers. The yard is essentially at capacity.
Halliburg Rowland Helghte	Major freeway connection and impact areas involved	CA-60 is in close vicinity. No top 15 highway or arterial freight impact areas are found in the region.
BNSF San Bernardino	The city of site	San Bernardino
Rd W Buse Line S S San Bernardino Bernardino	Facilities and services	Off-dock facility Connecting BNSF Railroad Current Capacity (lifts): 660,000
Rialto Are W Maist W Maist W Maist Colton down	Trade characteristics	In 2010, the BNSF San Bernardino handled 427,572 lifts, of which only 137 were marine containers lifts.
rupa Ave Grand	Major freeway connection and impact areas involved	I-10, CA-210 and I-215 are in close vicinity. No top 15 highway or arterial freight impact areas are found in the region.

Table 11 Freight impact areas in relation to major intermodal terminals in the San Francisco region

OIG- BNSF	The city of site	Oakland
Multiple Control of the Control of t	Facilities and services	Near-dock facility Connecting BNSF Railroad Current Capacity (lifts): 300,000
Fiedmont OIG - BNSF (a) Aklarid OFFERINGER Alamyda	Trade characteristics	/
Bushane San Francisco Bay	Major freeway connection and impact areas involved	I-80, I-880, I-580 and I-980 are in close vicinity. Three of the top 15 highway freight impact areas are in the region.
Railport-UP	The city of site	Oakland
dere- iron Emeryville Market State	The city of site Facilities and services	Oakland Near-dock facility Connecting UPRR Railroad Current Capacity (lifts): 450,000
Albany Orinds Berkeley Berkeley Emeryville	-	Near-dock facility Connecting UPRR Railroad